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A.D. 1853 . . . . . N<sup>o</sup> 1419.

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S P E C I F I C A T I O N

OF

JOSIAH MOORE.

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RESPIRATORS.

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L O N D O N :

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

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1853.





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A.D. 1853 . . . . . N° 1419.

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**Respirators.**

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**LETTERS PATENT** to Josiah Moore, of Clerkenwell Close, in the County of Middlesex, Clock Manufacturer, for the Invention of “**IMPROVEMENTS IN RESPIRATORS.**”

Sealed the 5th August 1853, and dated the 10th June 1853.

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**PROVISIONAL SPECIFICATION** left by the said Josiah Moore at the Office of the Commissioners of Patents, with his Petition, on the 10th June 1853.

I, JOSIAH MOORE, of Clerkenwell Close, in the County of Middlesex,  
5 Clock Manufacturer, do hereby declare the nature of the said Invention for “**IMPROVEMENTS IN RESPIRATORS**” to be as follows, that is to say:—

These improvements consist in the construction of respirators of such a form and dimensions that they may be applied internally within  
10 the mouth, instead of on the outside thereof, as heretofore. For this purpose a sheet or strip of woven wire gauze is folded up into a suitable number of thicknesses, and placed within a small curved case or frame to fit the mouth of the user.

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*Moore's Improvements in Respirators.*

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**SPECIFICATION** in pursuance of the conditions of the Letters Patent, filed by the said Josiah Moore in the Great Seal Patent Office, on the 9th December 1853.

**TO ALL TO WHOM THESE PRESENTS SHALL COME, I, JOSIAH MOORE,** of Clerkenwell Close, in the County of Middlesex, 5  
Clock Manufacturer, send greeting.

**WHEREAS** Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Tenth day of June, in the year of our Lord One thousand eight hundred and fifty-three, in the sixteenth year of Her reign, did, for Herself, Her heirs and successors, 10  
give and grant unto me, the said Josiah Moore, Her special licence that I, the said Josiah Moore, my executors, administrators, and assigns, or such others as I, the said Josiah Moore, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term 15  
therein expressed, should and lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel Islands, and Isle of Man, an Invention of "**IMPROVEMENTS IN RESPIRATORS,**" upon the condition (amongst others) that I, the said Josiah Moore, by an instrument in writing under my hand and seal, 20  
should particularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

**NOW KNOW YE,** that my improvements consist in the construc- 25  
tion of respirators of such form and dimensions that they may be applied internally within the mouth, instead of on the outside thereof, as heretofore. For this purpose a sheet or strip of woven wire gauze is folded up into a suitable number of thicknesses, and placed in a small curved case or frame to fit the mouth of the wearer. 30

And in order that the nature of this my Invention may be more fully understood reference is had to the Drawings hereunto annexed, and to the following description thereof, that is to say:—Figure 1, is

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*Moore's Improvements in Respirators.*

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an external front view; Figure 2, a back view; Figure 3, an end view; and Figure 4, a transverse section through the line A, B, Figure 1. The same letters refer to similar parts in each of these Drawings. C, C, is an external case or frame of gold, silver, or other suitable  
5 material, curved to fit the front of the mouth of the wearer, and pierced or perforated with any approved design at the back and front so as to present a number of apertures or openings for the free passage of air. *d, e*, is a rectangular shaped opening at one end of the case for the insertion of a sheet or strip of very fine metal wire gauze, folded up  
10 into a sufficient number of thicknesses to fill up the interior of the case C, C. Figure 5, shews the folded wire gauze, and its position within the case is shewn in the section, Figure 4.

In use this instrument is placed between the lips and the teeth, so that in the act of breathing the whole of the inspired and expired air  
15 shall pass through the several folds or thicknesses of the wire gauze. The effect of this arrangement will be, that the heat of the expired breath will be taken up by the wire gauze, and communicated to the fresh air as it is drawn through the respirator in its passage to the lungs. The respirator being within the mouth, and in immediate con-  
20 tact with the lips and gums, will be warmed thereby, as well as by the expired air, and such a temperature maintained as effectually to prevent the admission of any cold air to the lungs, and this to a much greater extent than could be accomplished by a larger and more cumbrous apparatus less favourably circumstanced.

25 Figure 6, shews a respirator in which the front of the case is made to resemble the natural teeth and gums by means of enamelling upon gold or other metal, or by forming that part of the case of ivory, porcelain, or other suitable material to which the required appearance may be given. This ornamental front may be constructed of one single  
30 piece, or the two rows of teeth may be made separately, and united by a spring hinge so as to admit of a small range of motion when the mouth is partially opened or moved, as in speaking.

I do not confine myself to any precise form or pattern, nor do I claim as of my Invention the use of wire gauze as a warming agent in  
35 respirators. What I claim as new and of my Invention is, the con-



*Moore's Improvements in Respirators.*

struction of respirators composed of several thicknesses of wire gauze in a suitable case or frame, to be worn within the mouth, substantially as herein-before described:

In witness whereof, I, the said Josiah Moore, have hereunto set my hand and seal, this Eighth day of December, in the year 5 of our Lord One thousand eight hundred and fifty-three.

JOSIAH MOORE. (L.S.)

Witness,

A. BADDELEY.

LONDON:

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MOORE'S SPECIFICATION.

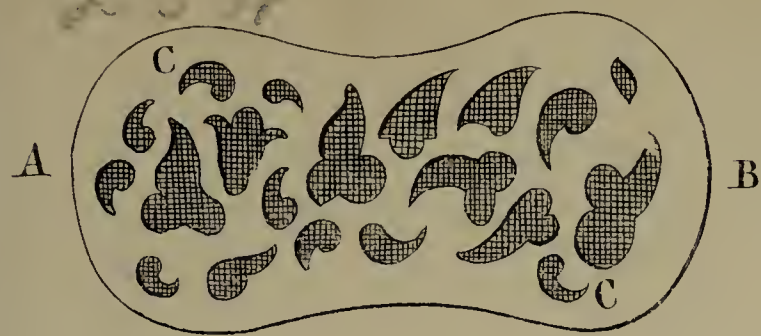


FIG. 1.

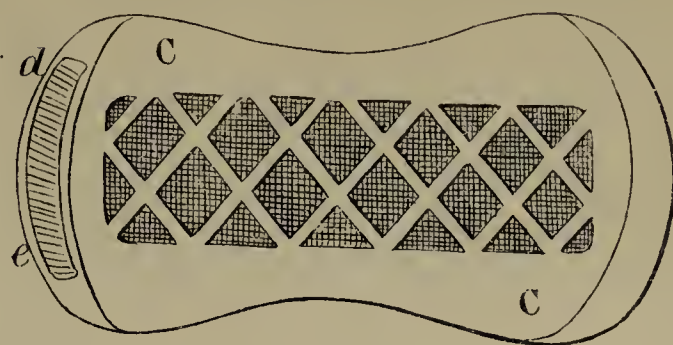


FIG. 2.

FIG. 3.

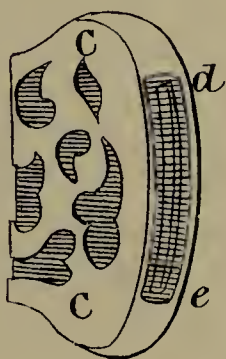


FIG. 4.

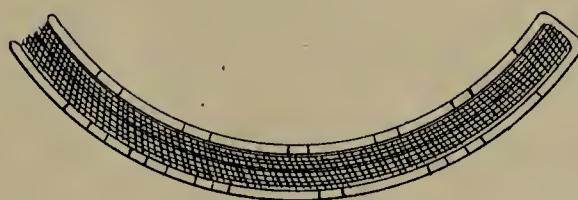


FIG. 5.

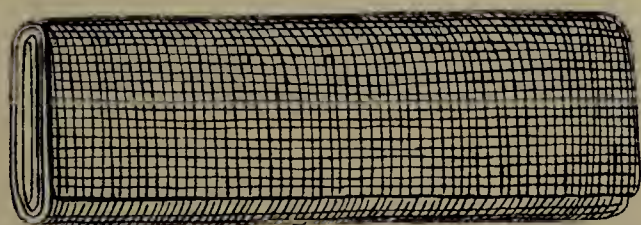
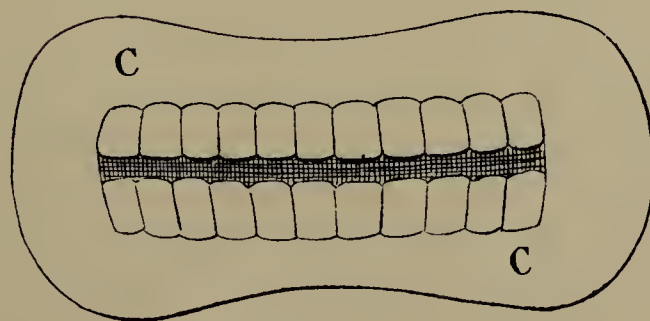


FIG. 6.



*The filed Drawing is Colored.*

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